

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : ESTIMATION FOR PROVIDING SEATING STEPS TO GALLERY AT SWAMY VIVEKANANDA PARK IN WARD NO-4 BBMP BANGALORE

ESTIMATION COST									5000000
Sl No	Description of Item	Unit	No	L	B	D	QTY	Rate	Amount
1	Pg.No-5,Item No-2.4 KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) /								
	Gallery	Cum	1	70	4.20	0.60	176.40		
	Basic rate							267.00	
	Area weightage 6%							16.02	
	Total						176.40	283.02	49924.73
2	Pg.No-12,Item No-4.2 KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	Gallery	Cum	5	70	0.6	0.15	31.5		
	Basic rate							4849.00	
	Area weightage 6%							290.94	
	Total						31.50	5139.94	161908.11
3	Pg No.23 Item No. 5.5 KSRB 5.2-2 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:8, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13								
	Gallery								
	Step 1	Cum	1	70	0.45	0.45	14.18		
	Step 2	Cum	1	70	0.45	0.45	14.18		
	Step 3	Cum	1	70	0.45	0.45	14.18		
	Step 4	Cum	1	70	0.45	0.45	14.18		
	Step 4'	Cum	1	70	0.45	0.45	14.18		
	Basic rate							3,689.00	
	Area weightage 6%							221.34	
	Total						70.88	3910.34	277145.35

4	Pg.No-23,Item No-5.12 KSRB 5.4-3 : Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing complete as per specifications. KBS 5.1.13							
Gallery								
Step 1	Cum	1	70	0.45	0.45	14.18		
Step 2	Cum	1	70	0.45	0.90	28.35		
Step 3	Cum	1	70	0.45	1.35	42.53		
Step 4	Cum	1	70	0.45	1.80	56.70		
Step 4'	Cum	1	70	0.45	1.80	56.70		
Basic rate							4,777.00	
Area weightage 6%							286.62	
Total						198.45	5063.62	1004875.39
5	Pg.No-147,Item No-19.60 KSRRB M300-53. Construction of embankment with approved material Gravel/Murum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305							
Step 1	Cum	1	70	0.45	1.05	33.08		
Step 2	Cum	1	70	0.45	1.50	47.25		
Step 3	Cum	1	70	0.45	1.95	61.43		
Step 4	Cum	1	70	0.45	2.40	75.60		
Basic rate							288.000	
Area weightage 6%							17.28	
Total						217.35	305.28	66352.61
6	PG no.12 Item No.4.5 KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggregates @ 0.43cum, with superplasticiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2							
Steps for gallery	Cum	8	2.00	0.60	0.15	1.44		
	Cum	8	2.00	0.30	0.15	0.72		
Basic rate							5548.00	
Area weightage 6%							332.88	
Total						2.16	5880.88	12702.70

7	Pg No 16,Item No 4.38 KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificalton. Specification No. KBS 4.6.2							
	Steps for gallery							
	Sides	Sqm	16	0.3		0.15	0.72	
	Rises	Sqm	16	0.3		0.15	0.72	
	Basic rate						466.00	
	Area weightage 6%						27.96	
	Total					1.44	493.96	711.30
8	Pg.No-25,Item No-5.31 Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 5.31.2 -do- <u>10 cms thick</u> ✓ <u>7.5 cms</u> <u>4.00</u> <u>280.00</u>							
	For gallery threads	Sqm	1	70	3.60		252.00	
	For Threads of gallery steps	Sqm	16	2	0.30		9.60	6
	Basic rate						736.00	
	Area weightage 6%						44.16	
	Total					261.60	780.16	204089.86
9	Pg No. 5.18 KSRB 5-8.2 : Providing <u>two line dressing</u> to granite stone slab / granite stone masonry as per specifications. KBS 5.1.13 26							
	For gallery threads	Sqm	1	70	3.60		252.00	
	For Threads of	Sqm	16	2	0.30		9.60	
	Basic rate						856.00	
	Area weightage 6%						51.36	
	Total					261.60	907.36	237365.38
10	Providing and fixing <u>20mm thick</u> gang saw water cut sadarhalli grey granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing.minimum width of <u>1200mm</u> . Pg No. 109 Item NO.14.61.1							
	For gallery risers	Sqm	4	70		0.45	126.00	
	For risers of gallery steps	Sqm	16	2.00		0.15	4.80	
	Basic rate						1932.00	
	Area weightage 6%						115.92	
	Total					130.80	2047.92	267867.94
11	Pg.No-113,Item No-15.18 KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar <u>1:3</u> , to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.							
		Sqm	1	70		1.80	126.00	
	Basic rate						246.00	
	Area weightage 6%						14.76	
	Total					126.00	260.76	32855.76

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12	Pg.No-117,Item No-15.53.2 KSRB 15-16.1 : Providing and finishing external walls with primer in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.							
	Sqm	1	70		1.80	126.00		
	Basic rate						79.00	
	Area weightage 6%						4.74	
	Total					126.00	83.74	10551.24
13	Pg.No-6,Item No-2.9 KSRB 2.2.7: Benching hard rock 5 to 7.5 cm depth. for seating of foundation, including cost of all labour complete as per specifications. specification. No. KBS 2.1(a) / 2.3.1							
	Footing base							
	Cum	14	2.70	0.70	0.05	1.30		
	Basic rate						1273.00	
	Area weightage 6%						76.380	
	Total					1.30	1349.38	1750.45
14	Pg.No-12,Item No-4.3 KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix M7.5 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2							
	Footing base							
	Estern side	Cum	14	2.70	0.70	0.10	2.59	
	Basic rate						4695.00	
	Area weightage 6%						281.70	
	Total					2.59	4976.70	12911.82
15	Pg.No-13,Item No-4.11 KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.460cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.6							
	Footing base							
	Cum	14	2.70	0.70	0.45	11.68		
	Footing pedastal							
	Cum	14	0.90	0.45	1.50	8.34		
	Basic rate						5739.00	
	Area weightage 6%						344.34	
	Total					20.01	6083.34	121754.18

Truss work for Gallery covering								
	kg	(QUANTITY OF STEEL ASSUMED @ 3.5 Kg/ SFT FOR STEEL COLUMNS AND TRUSS FOR GALLERY COVERING)				10543.23		
Basic rate							120.00	
Area weightage 6%							7.20	
Total						10543.23	127.2	1341099.11
20	Pg No 291,Item No 38.30. Providing and installing of Prepainted Galvalume iron trapezoidal profiled sheet of approved make 1060mm width(1000mm cover width)28-30mm crest high with crest distance of 200mm/c with 2ribs at the center for stiffening. the total coated thickness(TCT)of sheet will be .47mm +/-0.02mm tolerance Zinc alu-alloy coating AZ150 gsm as per ASTM 1397/A755-550 mpa steel grade,5-7 microns epoxy primer on both side of the sheet and polyester top coat 20-22 microns using self drilling/self screws of 25mm length,to be fixed over the existing purlins,rafters,channels and trusses.epainted Galvalum sheet colour sheet of .45mm thk (TRAPEZOIDAL PROFILED SHEET)							
	Sqm	1	70	4.10		287.00		
Basic rate							770.00	
Area weightage 6%							46.20	
Total	sqm					287.00	816.2	234249.40
21	Pg No. 293 Item 38.31 Providing and installing approved make pre painted Galvalume iron accessories,like,plain,ridges,plain gutter,plain flashing,corner trim,etc. The total coated thickness(TCT) of the sheet shall be 0.47 mm +/-0.02 tolerance mm Zinc -Alu alloy coating AZ 150 gsm as per ASTM 1397/755-550 mpa steel grade, 5-7 microns epoxy primer on both sides of sheet and polyester top coat 20-22 micrns using self drilling/self tapping scews of length 25mm(width upto 500-600 mm only),to be fixed over existing purlins,rafters,chanel							
For gutter	Sqm	14	4.10	0.23		12.94		
Basic rate							740.00	
Area weightage 6%							44.40	
Total						12.94	784.4	10153.92
22	Pg.No-12,Item No-4.5 KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.64cum and fine aggretes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2							
For Fixing chain link Fencing	Cum	1	50	0.45	0.15	3.38		
Basic rate							5548.00	
Area weightage 6%							332.88	
Total						3.38	5880.88	19847.97

23	Pg.No-15,Item No-4.31 KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2							
	Sqm	2	50		0.15	15.00		
	Basic rate						284.00	
	Area weightage 6%						17.04	
	Total					15.00	301.04	4515.60
24	Pg N0.255 Item No.37.2 Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer- in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete							
	For missing Bits and damaged portion	m	67		1.80	120.60		
	Basic rate						918.00	
	Area weightage 6%						55.08	
	Total					120.60	973.08	117353.45
25	Pg No. 255Item No.37.337.3 Providing chain link fencing 50mm size of 8 guage properly stretched between rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint							
	For missing Bits and damaged portion	Sqm	66	3.00	1.80	356.40		
	Basic rate						646.00	
	Area weightage 6%						38.76	
	Total					356.40	684.76	244048.46
26	Pg No. 255 Item No.37.4 Providing and fixing M.S. Block pipe of 38mm dia , of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint							
	For missing Bits and damaged portion	m	132	3.00		396.00		
	Basic rate						313	
	Area weightage 6%						18.78	
	Total					396.00	331.78	131384.88

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27	Pg.No-120,Item No-15.73 KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications.
For Truss	Sqm 1 70 4.1 287.00
Basic rate	28.00
Area weightage 6%	1.68
Total	287.00 29.68 8518.16
28	Pg.No-120,Item No-15.74 KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.
For Truss	Sqm 1 70 4.1 287.00
For chain link	Sqm 135 3.00 1.80 729.00
Basic rate	79.00
Area weightage 6%	4.74
Total	1016.00 83.74 85079.84
29	Pg no.240 Item no.32.11 KSRRB M2700-12. Providing and applying 2 coats of water based cement paint to unplastered concrete surface after cleaning the surface of dirt, dust, oil, grease, efflorescence and applying paint at of 1 litre for 2 sqm complete as per specifications MORTH Specification No. 800
For kerbs	Sqm 2 425.00 0.45 382.50
Basic rate	62
Area weightage 6%	3.72
Total	382.50 65.72 25137.90
	Sub total 4852484.66
30	For Providing /quality Control and third party inspection 121312.12
31	Structural Design of Truss LS 24262.42
32	Miscellaneous and rounding off 1940.80
	TOTAL AMOUNT 5000000.00

CERRIFICATE:

- 1) The work spot has been inspected and found to be necessary
- 2) The work spot comes under B.B.M.P
- 3) The provisions made in the estimate are necessary and minimum
- 4) The estimate is based on C.S.R of 2015-2016.

Assistant Engineer

Assistant Executive Engineer

Executive Engineer

Regis. No. CE () No. 9/9/15
 Subject to conditions contained in enclosed memo EE () No. /9/
 Dt. 15/2/2016 Estimate A/Sanctioned
 J.C (y) Rs. 50.00 lakh
 dated 15-2-2016 Rs.

Technical Sanction
 Accorded For 50.00 lakh Rs
 Head of A/C. P-3089
 CER NO : 107 Dt: 16.02.16

TA CE (YNK)

Joint Commissioner
 (Voluntary Zone)
 Jaluru-92